

S. R. Sapirie, Manager of Operations Oak Ridge

AUG 2 1 1955

E. J. Block, Director of Production F. Quinn

BORON-10

SYMBOL: PT:BS

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Subsequent to my memo of May 15, which advised you of the Reactor Development Division's enriched beren requirements, there has developed some misunderstanding concerning the B-10 program which deserve further attention:

- 1) the distribution of the Reactor Development requirements during the five-year period covered in my memo
- 2) the requirements for programs other than those of the Division of Reacter Development and
- your authority to make shipments in accordance with established requirements.

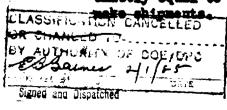
The purpose of this memo is to strempt to clarify the above points and provide you with further guidance concerning future activities devoted to the production and distribution of enriched boron.

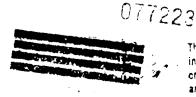
Reactor Development Requirements

The cumulative Reactor Development requirements as shown in my May 15 meso are unchanged. As the metallurgical and reactor tests being conducted by the Division of Reactor Bevelopment progress, we may expect some shift in the timing of the requirements of each of the four subprograms.

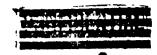
In order to provide the necessary flexibility, you are authorised to treat the total Fiscal Year 1956 and 1957 requirements in a cumulative manner, and make shipments during FY 1957 up to the difference between the total two year (FY '56 and '57) requirements as shown in my May 15 memo and actual shipments made during FY 1956.

Your mame of May 15, subject: Elemental B-10 for Idd Tank Facility, ORML, requested authority to transfer 500 pounds of B-10 from Hocker to ORML for AMP shielding studies. In accordance with the above, and as the total FY 1956 and 1957 requirement for AMP is 150 kgs, almost exactly equal to the request, you have the necessary authority to









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Research Requirements

The Division of Research has informed us that the requirements for the 5000 Pregram as shown in your mame of May 15, subject: ORML Boron-10 Requirements - compled with the 25 kgs. transferred to the research stockpile at ORML during FY 1956 will suffice their needs and have their concurrence. Therefore these diversions are also approved.



Melogy and Medicine Requirements

The Division of Biology and Medicine estimates their requirements for enriched beron at 50 kgs. per year for the three-year period FY 1956 through FI 1958. These requirements are far the Decimetry Program and may be supplied for such use upon demand. In addition, Biology and Medicine advises of a possible requirement for five pounds of B-10 for Hilitary Effects Tests in 1956 and an additional 5 kgs. of B-10 for the Civil Effects Tests. These potential requirements should be included in your predection planning; however, their transfer is not yet approved.

For further elemification of the BeH enriched boron requirements, you are referred to your copy of Br. Duchem's meno to us of August 3, subject: "Japanese Dominstry Program".

Civilian Application Requirements

There are presently so requirements for licensees in the Civilian Application program other than those shown under the CPB item of the Reaster Development requirements given in my May 15 memo. This material is to be used for work to be done by ANL for Detroit Edison, et al, as part of the Power Demonstration Reacter Program. Requests up to the amount shown for PY 1957 may be supplied to ANL if the stated use of the material is in conformance with the above.

I would like to note that we are holding all requests for cost estimates for enriched beron pending your reply to our July 3 memo, subject: Specifications for Boron-10. It would be appreciated if your answer were expedited.

We hope that this memo serves to clarify the paints outlined above. If there are any other questions regarding this subject we will be pleased to furnish the necessary guidance.

ce: Miology & Medicine Civilian Application Reactor Development Research

